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I-3, II-49, II-53, II-56, II-70, II-72, III-42, III-46, III-47, III-48

**NATIONAL ESTUARINE RESEARCH RESERVE SYSTEM
WATERBODIES**

Chesapeake Bay (MD and VA)

(See above under “Waterbodies”)

Delaware Inland Bays

(See above under “Waterbodies”)

Delaware Estuary (or Bay)

(See above under “Waterbodies”)

Hudson River

III-45

Narragansett Bay

(See above under “Waterbodies”)

Waquoit Bay

II-51, II-52, II-53, II-55, II-56

APPENDIX A

Major Sources of Information: Publications and Internet Sites

PUBLICATIONS

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Eskin, R.A., K.H. Rowland, and D.Y. Alegre. 1996. Contaminants in Chesapeake Bay Sediments 1984-1991. Printed by U.S. EPA for the Chesapeake Bay Program. May 1996.

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Lake Champlain Basin Program. 1998. Long-Term Water Quality and Biological Monitoring Project for Lake Champlain, Cumulative Report for Project Years 1992-1996. Prepared by the Vermont Department of Environmental Conservation and the New York State Department of Environmental Conservation for the Lake Champlain Basin Program. Technical Report No. 26. March 1998.

Mackay, D. and E. Bentzen. 1997. The role of the atmosphere in Great Lakes contamination. Atmos. Environ. 31(23):4045-4047.

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Schroeder, W.H., and J. Munthe. 1998. Atmospheric mercury - An overview. Atmos. Environ. 32(5):809-822.

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Appendix A

Major Sources of Information: Publications and Internet Sites

U.S./Canada IADN Scientific Steering Committee. 1998. Technical Summary of Progress Under the Integrated Atmospheric Depositions Program 1990-1996.

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U.S. EPA. 1998. National Listing of Fish and Wildlife Advisories (NLFWA) Database - 1997. Office of Water. EPA-823-C-98-001.

U.S. EPA. 1998. Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units -- Final Report to Congress. February 1998. EPA 453/R-98-004a.

U.S. EPA. 1998. The Regional NO_x SIP Call and Reduced Atmospheric Deposition of Nitrogen: Benefits to Selected Estuaries. U.S. EPA. Washington, DC.

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INTERNET SITES

Chesapeake Bay Program

<http://www.chesapeakebay.net>

Commission for Environmental Cooperation

<http://www.cec.org>

Environment Canada Great Lakes Regional Programs

<http://www.cciw.ca/glimr/program.html>

Great Lakes Information Network

<http://www.great-lakes.net>

Great Lakes National Program Office

<http://www.epa.gov/glnpo>

Gulf of Mexico Program Office

<http://pelican.gmpo.gov>

Integrated Atmospheric Deposition Network - Environment Canada

<http://airquality.tor.ec.gc.ca/IADN>

Integrated Atmospheric Deposition Network - U.S. EPA

<http://www.epa.gov/grtlakes/air>

International Joint Commission

<http://www.ijc.org>

Lake Champlain Basin Program

<http://www.anr.state.vt.us/champ>

Lake Michigan Mass Balance Study (LMMBS)

<http://www.epa.gov/glnpo/lmmb>

Michigan State Mercury Pollution Prevention

<http://www.deq.state.mi.us/ead/p2sect/mercury>

National Atmospheric Deposition Program/AIRMoN

<http://nadp.sws.uiuc.edu/airmon>

National Atmospheric Deposition Program/National Trends Network (NADP/NTN)

<http://nadp.sws.uiuc.edu>

National Atmospheric Deposition Program/Mercury Deposition Network (NADP/MDN)

<http://nadp.sws.uiuc.edu/mdn>

National Estuarine Research Reserve System (NERRS)

<http://inlet.geol.sc.edu/nerrsintro.html>

Appendix A

Major Sources of Information: Publications and Internet Sites

National Estuary Program (NEP)

<http://www.epa.gov/nep>

NOAA Air Resources Laboratory, AIRMoN-Dry

http://www.arl.noaa.gov/research/projects/airmon_dry.html

North American Agreement on Environmental Cooperation (NAAEC)

<http://www.naaec.gc.ca/english/index.html>

Persistent Bioaccumulative Toxics (PBT) Initiative

<http://www.epa.gov/pbt>

U.S. Environmental Protection Agency (EPA)

<http://www.epa.gov>

APPENDIX B

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

This appendix lists the source categories that contribute less than 1 percent to total U.S. emissions for mercury and compounds, lead and compounds, cadmium and compounds, dioxins and furans, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). This information is from EPA's *Mercury Study Report to Congress* (U.S. EPA 1997e) for mercury and compounds and from EPA's 1993 National Toxics Inventory (NTI) for the remaining compounds (U.S. EPA 1999a). This list is referenced in Tables II-1, II-4, II-5, II-11, II-14, and II-22, in which the source categories contributing greater than 1 percent to total U.S. emissions are listed along with the percent contribution to total U.S. emissions.

MERCURY AND COMPOUNDS

Batteries	Pigments, Oil, etc.
Byproduct Coke	Primary Copper
Carbon Black	Primary Lead
Crematories	Primary Mercury Production
Electrical Apparatus	Refineries
Flourescent Lamp Recycling	Secondary Mercury Production
Geothermal Power	Sewage Sludge Incinerators
Instruments Manufacturing	Turf Products
Lime Manufacturing	Wood-fired Boilers
Mercury Compounds	

LEAD AND COMPOUNDS

Abrasive Products	Automotive stampings
Adhesives and Sealants	Automotive Dealers, Nec
Aerospace Industry (Surface Coating)	Aviation Gasoline Distribution: Stage I & II
Agricultural Production	Beet Sugar
Agricultural Chemicals and Pesticides	Black Liquor Combustion
Air and Gas Compressors	Blast Furnaces and Steel Mills
Air, Water, & Solid Waste Management	Boat Building and Repairing
Aircraft Engines and Engine Parts Manufacturing	Bolts, Nuts, Rivets and Washers Manufacturing
Aircraft Manufacturing	Bookbinding And Related Work
Aircraft Parts and Equipment Manufacturing	Botanical And Zoological Gardens
Aircraft And Parts	Brass, Bronze, Copper, Copper Base Alloy Foundries
Airports, Flying Fields, & Services	Bread, Cake, And Related Products
Aluminum Extruded Products	Brick and Structural Clay Tile
Aluminum Foundries	Business services, nec (1987)
Aluminum Foundries (Castings)	Canned specialties
Aluminum Sheet, Plate, and Foil manufacturing	Canned Fruits and Vegetables
Aluminum Die-Castings	Carbon and Graphite Products
Ammunition, Except for Small Arms	Carbon Black Manufacture
Amusement Parks	Carburetors, Pistons, Rings and Valves Manufacturing
Amusement And Recreation, Nec	Cathode Ray Television Picture Tubes Manufacturing
Animal Cremation	Cement, Hydraulic (not subject to Portland Cement Regulation)
Asphalt Paving Production	Ceramic Wall and Floor Tile Manufacturing
Asphalt Paving Mixtures And Blocks	Chemical Manufacturing: Explosives & Blasting Agents
Asphalt Production	
Asphalt Roofing Production	

Appendix B

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

LEAD AND COMPOUNDS (CONTINUED)

Chemical Preparations	Engineering Services
Chemical Manufacturing: Cyclic Crude and Intermediate Production	Environmental Controls Manufacturing
Chemicals and Allied Products Manufacturing	Fabricated Metal Products, nec
Chromium Plating: Chromic Anodizing Plating	Fabricated Plate Work (Boiler Shops)
Coated Fabrics, not Rubberized, Manufacturing	Fabricated Rubber Products, nec
Coke Ovens: By-product Recovery Plants	Fabricated Structural Metal Manufacturing
Cold Finishing of Steel Shapes	Fabricated Structural Metal Products
Commercial Printing, Lithographic	Farm Machinery and Equipment Manufacturing
Commercial Printing, nec	Ferroalloy Ores, Except Vanadium
Commercial Physical Research	Fertilizers, Mixing only
Commercial/Institutional Boilers: Coal Combustion, all types	Flat Glass
Commercial/Institutional Heating: Anthracite Coal Combustion	Fluid power Valves and Hose Fittings Manufacturing
Commercial/Institutional Heating: Bituminous and Lignite Coal Combustion	Fluid Meters and Counting Devices
Commercial/Institutional Heating: Distillate Oil Combustion	Food and Agricultural Products: Cotton Ginning
Commercial/Institutional Heating: Natural Gas Combustion	Food Preparations Production
Commercial/Institutional Heating: Residual Oil Combustion	Food Products Machinery Manufacturing
Commercial/Institutional Heating: Wood/Wood Residue Combustion	Frozen fruits, fruit juices and vegetables
Communications Equipment, nec	Funeral Service And Crematories
Computer Peripheral Equipment, nec	Furniture and Fixtures Manufacturing
Construction Machinery Manufacturing	Gas And Other Services Combined
Construction (SICs 15-17)	Gaskets, Packing and Sealing Devices Manufacturing
Construction Sand And Gravel	Gasoline Distribution Stage II
Conveyors and Conveying Equipment Manufacturing	Gasoline Distribution Stage I
Copper Rolling and Drawing	General Industrial Machinery Manufacturing
Copper Foundries	General Automotive Repair Shops
Cordage and Twine	General Medical & Surgical Hospitals
Correctional Institutions	Glass Containers
Costume Jewelry	Gold Ores
Cotton	Grain And Field Beans
Cottonseed Oil Mills	Gray and Ductile Iron Foundries
Courts	Greeting Cards
Crop Preparation Services For Market	Grocery Stores
Crude petroleum and natural gas	Guided Missiles and Space Vehicles Manufacturing
Crude Petroleum Pipelines	Halogenated Solvent Cleaners
Crushed And Broken Limestone	Hand and Edge Tools Manufacturing
Crushed And Broken Stone, Nec	Hardware Manufacturing
Crushed And Broken Granite	Heating Equipment, Except Electric
Current-carrying Wiring Devices	Heavy Construction, Nec
Custom Compound Purchased Resins Manufacturing	Hospitals
Dehydrated fruits, vegetables, and soups	Hotels And Motels
Depository Institutions	Household Cooking Equipment
Dog and Cat Food	Household Audio and Video Equipment
Drum and Barrel Reclamation	Hunting, Trapping, Game Propagation
Durable Goods, Nec	Industrial Boilers: Residual Oil Combustion
Electric and other services combined	Industrial Boilers: Bituminous and Lignite Coal Combustion
Electric Lamps	Industrial Boilers: Coal, all types
Electric services	Industrial Boilers: Distillate Oil Combustion
Electrical Equipment and Supplies, nec	Industrial Boilers: Natural Gas Combustion
Electrical Industrial Apparatus, nec	Industrial Boilers: Anthracite Coal Combustion
Electrical Apparatus and Equipment	Industrial Boilers: Waste Oil Combustion
Electromedical Equipment Manufacturing	Industrial Boilers: Wood/Wood Residue Combustion
Electrometallurgical Products	Industrial Gases Manufacturing
Electron Tubes Manufacturing	Industrial Inorganic Chemical Manufacturing
Electronic Components, nec	Industrial machinery and equipment
Electronic Computers	Industrial Organic Chemicals Manufacturing
Electronic Computing Equipment	Industrial Sand
Electronic Connectors	Industrial Supplies
Electronic Capacitors Manufacturing	Industrial Trucks and Tractors Manufacturing
Electronic Resistors	Industrial/Utility Dist. Oil/Diesel Turbines
Elevators and Moving Stairways Manufacturing	Inorganic Pigments Manufacturing
Engine Electric Equipment	Instruments to Measure Electricity
	Integrated Iron and Steel Mills

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

LEAD AND COMPOUNDS (CONTINUED)

Intercity & Rural Bus Transportation	Oil and Gas Field Machinery Manufacturing
Internal Combustion Engine Manufacturing	On-Site Waste Incineration
Iron and Steel Foundries: Steel Foundries	Open Burning: Forest and Wildfires
Iron and Steel Foundries: Steel Investment Foundries	Open Burning: Scrap Tires
Iron and Steel Forging	Ophthalmic Goods
Laminated Plastics Plate and Sheet	Optical Instruments and Lenses
Lead Pencils, Art Goods Manufacturing	Ordnance and Accessories Manufacturing
Life Insurance	Organic Fibers, Non-cellulosic Manufacturing
Lighting Equipment	Ornamental Nursery Products
Lightweight Aggregate Kilns	Other Structural Clay Products
Lime	Paint Application: Medium Shops
Lubricating Oils and Greases	Paint Application: Large Shops
Malleable Iron Foundries	Paints and Allied Products Manufacturing
Malt Beverages	Paper Coated and Laminated, Packaging, nec
Manufacturing Industries Manufacturing	Paperboard Mills
Marine Cargo Handling	Paved Road Dust
Measuring and Controlling Devices, nec	Petroleum Refining
Meat Packing Plants	Petroleum Refining
Membership Sports & Recreation Clubs	Petroleum Refining: Catalytic Cracking Units
Metal cans (3411)	Petroleum Refining: Other Petroleum Products
Metal coating and allied services (3479)	Petroleum Bulk Stations and Terminals
Metal Coil (Surface Coating)	Pharmaceutical Preparations Manufacturing
Metal Barrels, Drums, and Pails Manufacturing	Phosphatic Fertilizers
Metal Foil and Leaf	Plastics Materials and Resins Manufacturing
Metal Forgings and Stampings	Plastics Products Manufacturing
Metal Heat Treating Manufacturing	Plastics Foam Products Manufacturing
Metal Sanitary Ware Manufacturing	Plumbing Fixture Fittings and Trim
Metal Stampings Manufacturing	Porcelain Electrical Supplies
Metal Valves	Portland Cement Manufacture: All Fuels
Mineral Wool Manufacturing (includes Wool Fiberglass)	Potash, Soda, And Borate Minerals
Mineral Wool	Potato Chips and Similar Snacks
Minerals, Ground or Treated Production	Pottery Products, nec
Mining Machinery Manufacturing	Power Transmission Equipment
Miscellaneous Plastics Products	Prefabricated Metal Buildings
Miscellaneous Fabricated Wire Products	Prepared Feeds Manufacturing
Miscellaneous Metal Work	Primary Aluminum Production
Miscellaneous Nonmetallic Minerals	Primary Batteries, Dry and Wet, Manufacturing
Miscellaneous Fabricated Metal Products	Primary Copper
Miscellaneous Plastics Products, nec	Primary Metal Products Manufacturing
Mobile Sources: Railroads	Primary Smelting and Refining of Zinc
Mobile Sources: Non-Road Vehicles and Equipment -	Printing Ink
Commercial Marine Vessels	Printing Trades Machinery Manufacturing
MON - Continuous Processes	Products of Purchased Glass
Motion Picture & Video Production	Pulp mills (2611)
Motor Vehicle Equipment	Pulp and Paper: Kraft Recovery Furnaces
Motor Vehicle Parts and Accessories Manufacturing	Pumps and Pumping Equipment Manufacturing
Motor Vehicles and Car Bodies Manufacturing	Radio and Television Communications Equipment (3662)
Motor and Generators Manufacturing	Radio and Television Communications Equipment (3663)
Musical Instruments	Railroad Equipment Manufacturing
National Security	Railroads, Line-haul Operating
Natural Gas Liquids	Ready-mixed Concrete
Newspapers	Refrigeration and Heating Equipment Manufacturing
Non-road Mobile Vehicles	Refuse Systems
Noncommercial research organizations (1987)	Relays and Industrial Controls
Noncurrent-Carrying Wiring Devices	Repair services, nec
Nonferrous Foundries, nec	Residential Bituminous and Lignite Coal Combustion
Nonferrous Rolling and Drawing	Residential Care
Nonferrous Wire Drawing and Insulating	Residential Distillate Oil Combustion
Nonferrous Forgings	Residential Anthracite Coal Combustion
Nonferrous Die-castings, Except Aluminum	Residential Wood/Wood Residue Combustion
Nonmetallic Mineral Products Manufacturing	Rice Milling
Nursing And Personal Care, Nec	Rubber and Plastic Hose and Belting Manufacturing
Office Machines	Sawmills and Planing Mills, general
Office Furniture, Except Wood Manufacturing	
Oil And Gas Field Services, Nec	

Appendix B

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

LEAD AND COMPOUNDS (CONTINUED)

Schools & Educational Services, Nec	Structural Clay Products, nec
Scrap And Waste Materials	Structure Fires
Screw Machine Products, Bolts, etc.	Surface Active Agents Manufacturing
Screw Machine Products Manufacturing	Surface Coating Operations
Search and Navigation Equipment	Surgical and Medical Instruments Manufacturing
Secondary Aluminum Smelting	Taconite Iron Ore Processing
Semiconductors and Related Devices	Telephone and Telegraph Apparatus
Semivitreous Table & Kitchenware	Textile Machinery
Service Industry Machinery	Tire Cord and Fabric
Sewage Sludge Incineration	Tire Manufacturing
Sewerage Systems	Tires and Inner Tubes
Sheet Metal Work	Top & body repair and paint shops (1987)
Ship Building & Repair	Transformers, Except Electronic
Ship Building And Repairing	Travel Trailers and Campers Manufacturing
Signs and Advertising Displays	Truck Trailers
Silverware and Plated Ware	Truck and Bus Bodies
Skilled Nursing Care Facilities	Trucking, Except Local
Small Arms Ammunition	Turbines and Turbine Generator Sets
Small Arms	Turbines - Natural Gas
Soap and Other Detergents Manufacturing	U.S. Postal Service
Soil Dust	Unpaved Road Dust
Space Research and Technology	Unsupported Plastics Profile Shapes
Space Vehicle Parts and Equipment, nec	Unsupported Plastics Film & Sheet
Space Propulsion Units and Parts Manufacturing	Utility Boilers: Coke
Special Dies, Tools, Jigs and Fixtures	Utility Boilers: Natural Gas Combustion
Special Industry Machinery, nec	Utility Boilers: Oil Combustion, all types
Special Trade Contractors, nec	Valves and Pipe Fittings Manufacturing
Specialty Hospitals Exc. Psychiatric	Vehicular Lighting Equipment
Speed Changers, Drives, and Gears	Vitreous Plumbing Fixtures
Sporting and Athletic Goods Manufacturing	Vitreous China Table and Kitchenware
Stainless Steel Manufacture - EAF	Waste Disposal: Open Burning (all categories)
Stationary IC Engines - Diesel	Water supply
Stationary IC Engines - Natural Gas	Wood Products
Steam And Air-conditioning Supply	Wool Fiberglass Manufacturing
Steel Pipe and Tubes Manufacturing	X-ray Apparatus and Tubes

CADMIUM AND COMPOUNDS

Adhesives and Sealants	Cadmium Stabilizers for Plastics
Aerospace Industry (Surface Coating)	Canned specialties
Agricultural Production	Canned Fruits and Vegetables
Air, Water, & Solid Waste Management	Carbon Black Manufacture
Aircraft Manufacturing	Cement, Hydraulic (not subject to Portland Cement Regulation)
Aircraft Parts and Equipment Manufacturing	Chemical Preparations
Aircraft And Parts	Chemical Manufacturing: Cyclic Crude and Intermediate Production
Airports, Flying Fields, & Services	Chromium Plating: Chromic Anodizing Plating
Aluminum Extruded Products	Chromium Metal Plating
Aluminum Foundries	Coated Fabrics, not Rubberized, Manufacturing
Aluminum Foundries (Castings)	Commercial Physical Research
Aluminum Die-Castings	Commercial Printing, Letterpress, and Screen
Ammunition, Except for Small Arms	Commercial Printing, Lithographic
Amusement Parks	Commercial Printing, nec
Animal Cremation	Commercial/Institutional Boilers: Coal Combustion, all types
Asphalt Production	Commercial/Institutional Heating: Anthracite Coal Combustion
Asphalt Roofing Production	Commercial/Institutional Heating: Bituminous and Lignite Coal Combustion
Asphalt Paving Mixtures And Blocks	Commercial/Institutional Heating: Distillate Oil Combustion
Automotive stampings	Commercial/Institutional Heating: Natural Gas Combustion
Ball and Roller Bearings Manufacturing	Commercial/Institutional Heating: Residual Oil Combustion
Beet Sugar	Commercial/Institutional Heating: Wood/Wood Residue Combustion
Black Liquor Combustion	
Blast Furnaces and Steel Mills	
Boat Building and Repairing	
Bolts, Nuts, Rivets and Washers Manufacturing	
Brick and Structural Clay Tile	

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

CADMIUM AND COMPOUNDS (CONTINUED)

Confectionery	Industrial Sand
Construction Machinery Manufacturing	Industrial/Utility Dist. Oil/Diesel Turbines
Construction Sand And Gravel	Inorganic Pigments Manufacturing (Cadmium only)
Construction (SICs 15-17)	Instruments to Measure Electricity
Copper Rolling and Drawing	Intercity & Rural Bus Transportation
Correctional Institutions	Internal Combustion Engine Manufacturing
Cotton	Iron and Steel Foundries: Steel Foundries
Cottonseed Oil Mills	Iron and Steel Forging
Courts	Lead Pencils, Art Goods Manufacturing
Crop Services	Life Insurance
Crop Preparation Services For Market	Lighting Equipment
Crude petroleum and natural gas	Lightweight Aggregate Kilns
Crude Petroleum Pipelines	Lime
Crushed And Broken Limestone	Lubricating Oils and Greases
Crushed And Broken Stone, Nec	Malt Beverages
Crushed And Broken Granite	Manufacturing Industries Manufacturing
Custom Compound Purchased Resins Manufacturing	Marine Cargo Handling
Dehydrated fruits, vegetables, and soups	Metal coating and allied services (3479)
Depository Institutions	Metal Heat Treating Manufacturing
Durable Goods, Nec	Metal Sanitary Ware Manufacturing
Electric and other services combined	Metal cans (3411)
Electric services	Mineral Wool
Electron Tubes Manufacturing	Mineral Wool Manufacturing (includes Wool Fiberglass)
Electronic Computers	Minerals, Ground or Treated Production
Electronic Connectors	Miscellaneous Nonmetallic Minerals
Electronic Components, nec	Miscellaneous Metal Work
Engine Electric Equipment	Mobile Sources: On- Road Vehicles
Engineering Services	Mobile Sources: Non-Road Vehicles and Equipment -
Environmental Controls Manufacturing	Commercial Marine Vessels
Fabricated Structural Metal Manufacturing	MON - Continuous Processes
Fabricated Metal Products, nec	Motion Picture & Video Production
Ferroalloy Ores, Except Vanadium	Motor and Generators Manufacturing
Flat Glass	Motor Vehicle Parts and Accessories Manufacturing
Flour and other grain mill products	National Security
Fluid power Valves and Hose Fittings Manufacturing	Natural Gas Liquids
Food and Agricultural Products: Cotton Ginning	Non-road Mobile Vehicles
Frozen fruits, fruit juices and vegetables	Non-stainless Steel Manufacture - EAF
Funeral Service And Crematories	Noncommercial research organizations (1987)
Gas And Other Services Combined	Nonferrous Wire Drawing and Insulating
General Medical & Surgical Hospitals	Nonferrous Rolling and Drawing
Glass Containers	Nonferrous Foundries, nec
Gold Ores	Nonmetallic Mineral Products Manufacturing
Gray and Ductile Iron Foundries	Nursing And Personal Care, Nec
Grocery Stores	Oil And Gas Field Services, Nec
Guided Missiles and Space Vehicles Manufacturing	On-Site Waste Incineration
Halogenated Solvent Cleaners	Ordnance and Accessories Manufacturing
Hardware Manufacturing	Ornamental Nursery Products
Heating Equipment, Except Electric	Other Cadmium Compound Production
Heavy Construction, Nec	Other Structural Clay Products
Hospitals	Paints and Allied Products Manufacturing
Hotels And Motels	Paved Road Dust
Household Cooking Equipment	Petroleum Refining
Human Cremation	Petroleum Bulk Stations and Terminals
Hydrochloric Acid Production	Petroleum Refining
Industrial Boilers: Bituminous and Lignite Coal Combustion	Petroleum Refining: Other Petroleum Products
Industrial Boilers: Anthracite Coal Combustion	Pharmaceutical Preparations Manufacturing
Industrial Boilers: Coal, all types	Plastics Materials and Resins Manufacturing
Industrial Boilers: Distillate Oil Combustion	Plastics Products Manufacturing
Industrial Boilers: Natural Gas Combustion	Plastics Foam Products Manufacturing
Industrial Boilers: Residual Oil Combustion	Portland Cement Manufacture: All Fuels
Industrial Boilers: Waste Oil Combustion	Prepackaged Software
Industrial Boilers: Wood/Wood Residue Combustion	Prepared Feeds Manufacturing
Industrial machinery and equipment	Pressed and Blown Glass and Glassware Manufacturing
Industrial Machinery, nec	
Industrial Organic Chemicals Manufacturing	

Appendix B

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

CADMIUM AND COMPOUNDS (CONTINUED)

Primary Copper	Ship Building And Repairing
Primary Batteries, Dry and Wet, Manufacturing	Skilled Nursing Care Facilities
Primary Metal Products Manufacturing	Soap and Other Detergents Manufacturing
Pulp mills (2611)	Soil Dust
Pulp and Paper: Kraft Recovery Furnaces	Space Research and Technology
Radio and Television Communications Equipment (3663)	Space Propulsion Units and Parts Manufacturing
Railroads, Line-haul Operating	Specialty Hospitals Exc. Psychiatric
Raw cane sugar	Stainless Steel Manufacture - EAF
Ready-mixed Concrete	Stationary IC Engines - Diesel
Refrigeration and Heating Equipment Manufacturing	Stationary IC Engines - Natural Gas
Refuse Systems	Steam And Air-conditioning Supply
Repair services, nec	Storage Batteries Manufacturing
Residential Bituminous and Lignite Coal Combustion	Structural Clay Products, nec
Residential Care	Telephone and Telegraph Apparatus
Residential Distillate Oil Combustion	Tire Manufacturing
Residential lighting fixtures	Tires and Inner Tubes
Residential Anthracite Coal Combustion	Top & body repair and paint shops (1987)
Residential Wood/Wood Residue Combustion	Travel Trailers and Campers Manufacturing
Rice Milling	Trucking, Except Local
Sawmills and Planing Mills, general	Turbines and Turbine Generator Sets
Schools & Educational Services, Nec	Turbines - Natural Gas
Scrap And Waste Materials	Unpaved Road Dust
Screw Machine Products, Bolts, etc.	Unsupported Plastics Film & Sheet
Search and Navigation Equipment	Utility Boilers: Coal Combustion, all types
Secondary Aluminum Smelting	Utility Boilers: Coke
Secondary Nonferrous Metals Production	Utility Boilers: Natural Gas Combustion
Secondary Zinc Production	Utility Boilers: Oil Combustion, all types
Semiconductors and Related Devices	Valves and Pipe Fittings Manufacturing
Service Industry Machinery	Water supply
Sewerage Systems	Wood Products
Sheet Metal Work	

DIOXINS AND FURANS (MEASURED AS 2,3,7,8-TCDD TEQ)

Carbon Reactivation Furnaces	Lightweight Aggregate Kilns
Commercial/Institutional Heating: Anthracite Coal Combustion	Portland Cement Manufacture: Hazardous Waste-fired
Commercial/Institutional Heating: Bituminous and Lignite Coal Combustion	Pulp and Paper: Kraft Recovery Furnaces
Commercial/Institutional Heating: Wood/Wood Residue Combustion	Residential Bituminous and Lignite Coal Combustion
Commercial/Institutional Heating: Anthracite Coal Combustion	Residential Anthracite Coal Combustion
Drum and Barrel Reclamation	Scrap Tire Combustion
Hazardous Waste Incineration	Secondary Copper Smelting
Industrial Boilers: Anthracite Coal Combustion	Secondary Lead Smelting
Industrial Boilers: Bituminous and Lignite Coal Combustion	Sewage Sludge Incineration
	Utility Boilers: Coke

POLYCYCLIC AROMATIC HYDROCARBONS (MEASURED AS 16-PAH)

Abrasive Products	Chemical Manufacturing: Naphthalene
Adhesives and Sealants	Chemical Manufacturing: Alkalies and Chlorine
Agricultural Chemicals and Pesticides	Chemical Manufacturing: Cyclic Crude and Intermediate Production
Aircraft Parts and Equipment Manufacturing	Chemical Manufacturing: Naphthalene Sulfonates
Aircraft Manufacturing	Chemical Preparations
Aluminum Extruded Products	Cigarette Smoke
Aluminum Foundries	Clay Refractories
Aluminum Sheet, Plate, and Foil manufacturing	Coke Ovens: By-product Recovery Plants
Animal Cremation	Cold Finishing of Steel Shapes
Asphalt Felts And Coatings	Commercial/Institutional Heating: POTW Digester Gas Combustion
Asphalt Paving Production	Commercial Physical Research
Blast Furnaces and Steel Mills	Commercial Printing, Gravure
Carbamate Insecticides Production	Commercial Printing, Letterpress, and Screen
Carbon and Graphite Products	
Cement, Hydraulic (not subject to Portland Cement Regulation)	

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

POLYCYCLIC AROMATIC HYDROCARBONS (MEASURED AS 16-PAH) (CONTINUED)

Commercial/Institutional Heating: Anthracite Coal Combustion	Motor Vehicles and Car Bodies Manufacturing
Commercial/Institutional Heating: Bituminous and Lignite Coal Combustion	Municipal Waste Combustion
Commercial/Institutional Heating: Distillate Oil Combustion	Naphthalene: Miscellaneous Uses
Commercial/Institutional Heating: Natural Gas Combustion	Needles, Pins, Hooks and Eyes and Similar Notions
Commercial/Institutional Heating: Residual Oil Combustion	Non-stainless Steel Manufacture - EAF
Commercial/Institutional Heating: Wood/Wood Residue Combustion	Nonferrous Wire Drawing and Insulating
Construction Machinery Manufacturing	Nonmetallic Mineral Products Manufacturing
Drum and Barrel Reclamation	Office Furniture, Except Wood Manufacturing
Fabric Dress and Work Gloves	Oil and Gas Field Machinery Manufacturing
Fabricated Plate Work (Boiler Shops)	Other Structural Clay Products
Fabricated Metal Products, nec	Paints and Allied Products Manufacturing
Fabricated Rubber Products, nec	Paper Coated and Laminated, Packaging, nec
Fabricated Structural Metal Manufacturing	Paper Mills
Ferroalloy Manufacture	Partitions and Fixtures, Except Wood
Fiber Cans, Drums, and Similar Products	Petroleum Bulk Stations and Terminals
Gray and Ductile Iron Foundries	Petroleum Refining
Gum and Wood Chemical Manufacturing	Pharmaceutical Preparations Manufacturing
Hard Surface Floor Coverings Manufacturing	Phthalic Anhydride Production
Household Cooking Equipment	Plastics Materials and Resins Manufacturing
Household Appliances Manufacturing	Plastics Foam Products Manufacturing
Human Cremation	Polishes and Sanitation Goods Manufacturing
Hydrochloric Acid Production	Potato Chips and Similar Snacks
Industrial Boilers: Waste Oil Combustion	Primary Nonferrous Metals Production
Industrial Boilers: Anthracite Coal Combustion	Public Building and Related Furniture
Industrial Boilers: Bituminous and Lignite Coal Combustion	Publicly Owned Treatment Works (POTWs)
Industrial Boilers: Distillate Oil Combustion	Refrigeration and Heating Equipment Manufacturing
Industrial Boilers: Natural Gas Combustion	Residential Anthracite Coal Combustion
Industrial Boilers: Residual Oil Combustion	Residential Bituminous and Lignite Coal Combustion
Industrial Boilers: Wood/Wood Residue Combustion	Residential Distillate Oil Combustion
Industrial Gases Manufacturing	Residential Natural Gas Combustion
Industrial Inorganic Chemical Manufacturing	Residential Wood/Wood Residue Combustion
Integrated Iron and Steel Mills	Scrap Tire Combustion
Internal Combustion Engine Manufacturing	Secondary Lead Smelting
Landfills: Gas Flares	Sewage Sludge Incineration
Lubricating Oils and Greases	Sheet Metal Work
Manufacturing Industries Manufacturing	Ship Building & Repair
Meat Packing Plants	Soap and Other Detergents Manufacturing
Medical Waste Incineration	Sporting and Athletic Goods Manufacturing
Medicinals and Botanicals Manufacturing	Stainless Steel Manufacture - EAF
Metal Barrels, Drums, and Pails Manufacturing	Stationary IC Engines - Diesel
Metal Coil (Surface Coating)	Stationary IC Engines - Natural Gas
Metal Doors, Sash, and Trim	Surface Active Agents Manufacturing
Metal Household Furniture	Tire Manufacturing
Miscellaneous Plastics Products	Transformers, Except Electronic
Miscellaneous Chemical Products (2890)	Truck and Bus Bodies
Mobile Sources: Non-Road Vehicles and Equipment - Aircraft	Turbines - Natural Gas
Mobile Sources: Non-Road Vehicles and Equipment - Commercial Marine Vessels	Utility Boilers: Coke
Mobile Sources: Non-Road Vehicles and Equipment - Other	Utility Boilers: Coal Combustion, all types
Mobile Sources: On- Road Vehicles	Utility Boilers: Natural Gas Combustion
Motor Vehicle Equipment	Utility Boilers: Oil Combustion, all types
	Wood Household Furniture Manufacturing
	Wood Treatment/Wood Preserving
	Yarn Spinning Mills

Appendix B

Detailed Breakdown of Air Emissions Inventory by Pollutant for Source Categories Emitting Less than 1 Percent of Total U.S. Emissions

POLYCHLORINATED BIPHENYLS

Adhesives and Sealants
Air, Water, & Solid Waste Management
Animal Cremation
Commercial Printing, Lithographic
Electric services
Industrial Boilers: Wood/Wood Residue Combustion

Landfills: Gas Flares
Minerals, Ground or Treated Production
Petroleum Refining
Secondary Nonferrous Metals Production
Services, Nec

APPENDIX C

Fish Consumption Advisories Issued for the Great Waters

Waterbody	PCBs	Dioxins	Hg	Cadmium	Chlordane	Toxaphene	Mirex	DDT	Dieldrin	Kepone	Others
Great Lakes											
Lake Superior	•		•		•	•					
Lake Michigan	•		•		•						
Lake Huron	•	•			•						
Lake Erie	•										
Lake Ontario	•	•					•				
Other Great Waters											
Chesapeake Bay											
Potomac River ^a	•	•			•						
James River ^a										•	
Back River ^a					•						
Baltimore Harbor ^a					•						
Anacostia River ^a	•				•						
Lake Champlain, NY	•		•								
NEP and NERR Sites											
Casco Bay, ME (NEP)		•									
Wells, ME (NERR)		•									
Great Bay, NH (NERR)	•										
Great Bay, Little Bay, and Hampton Harbor, NH (NEP)	•										
Massachusetts Bays, MA (NEP)			•								• ^b
Buzzards Bay, MA (NEP)	•		•								

Appendix C
Fish Consumption Advisories Issued for the Great Waters

Waterbody	PCBs	Dioxins	Hg	Cadmium	Chlordane	Toxaphene	Mirex	DDT	Dieldrin	Kepone	Others
Waquoit Bay, MA (NERR)			•								
Narragansett Bay, RI (NEP) (NERR)	•										
Long Island Sound, NY/CT (NEP)	•	•		•							
Peconic Bay, NY (NEP)	•	•		•							
Hudson River, NY (NERR)	•			•							
New York/New Jersey Harbor (NEP)	•	•		•	•						
Barneгат Bay, NJ (NEP)	•										
Jacques Cousteau-Great Bay and Mullica River, NJ (NERR)	•										
Old Woman Creek, OH (NERR)											
Delaware Estuary, DE/NJ/PA (NEP) (NERR)	•	•		•	•						
Delaware Inland Bays, DE (NEP)											
Maryland Coastal Bays, MD (NEP) (includes Assawoman, Isle of Wight, Sinepuxent, Newport, and Chincoteague Bays)											
Chesapeake Bay, MD (NERR)											
Chesapeake Bay, VA (NERR)											
Albemarle-Pamlico Sounds, NC (NEP)		•									
NC Coastal sites (NERR) (4 reserves)											

Appendix C
Fish Consumption Advisories Issued for the Great Waters

Waterbody	PCBs	Dioxins	Hg	Cadmium	Chlordane	Toxaphene	Mirex	DDT	Dieldrin	Kepone	Others
North Inlet/Winjah Bay, SC (NERR)											
Ashepoo-Combahee-Edisto Basin, SC (NERR)			•								
Sapelo Island, GA (NERR)											
Indian River Lagoon, FL (NEP)			•								
San Juan Bay, PR (NEP)											
Jobos Bay, PR (NERR)											
Charlotte Harbor, FL (NEP)			•								
Rookery Bay, FL (NERR)			•								
Sarasota Bay, FL (NEP)			•								
Tampa Bay, FL (NEP)			•								
Apalachicola Bay, FL (NERR)			•								
Mobile Bay, AL (NEP)			•								
Weeks Bay, AL (NERR)			•								
Barataria-Terrebonne Estuarine Complex, LA (NEP)			•								
Galveston Bay, TX (NEP)		•	•								
Corpus Christi Bay, TX (NEP)			•								
Kachemak Bay, AK (NERR)											
Padilla Bay, WA (NERR)											
Puget Sound, WA (NEP)	•	•	•								• ^c
Columbia River, OR/WA (NEP)	•	•						•			
Tillamook Bay, OR (NEP)											

Appendix C
Fish Consumption Advisories Issued for the Great Waters

Waterbody	PCBs	Dioxins	Hg	Cadmium	Chlordane	Toxaphene	Mirex	DDT	Dieldrin	Kepona	Others
South Slough, OR (NERR)											
San Francisco Bay, CA (NEP)	•	•	•		•			•	•		• ^d
Elkhorn Slough, CA (NERR)											
Morro Bay, CA (NEP)											
Santa Monica Bay, CA (NEP)	•							•			
Tijuana River, CA (NERR)											

^a Major tributary rivers to the Chesapeake Bay

^b Multiple pollutants (unspecified)

^c Specific embayments of Puget Sound are listed for the following pollutants; creosote, pentachlorophenol, volatile organic compounds (VOCs), tetrachloroethylene, arsenic, metals (unspecified), vinyl chloride, polyaromatic hydrocarbons (PAHs), polynuclear aromatics, and pesticides (unspecified).

^d Other unspecified pesticides.

Note: Shading is used in rows to designate waters where no advisories were in effect as of December 31, 1997.

Source: U.S. EPA 1998m (Advisories current through December 31, 1997).

APPENDIX D
Names of Numbered Sites from Figure II-17:
Locations of Watersheds Designated as Areas of
Probable Concern

Map #	Watershed Name	Map #	Watershed Name
1	Charles	49	Watts Bar Lake
2	Cape Cod	50	Lower Clinch
3	Narragansett	51	Middle Tennessee-Chickamauga
4	Hackensack-Passaic	52	Hiwassee
5	Sandy Hook-Staten Island	53	Guntersville Lake
6	Raritan	54	Pickwick Lake
7	Southern Long Island	55	Lower Tennessee-Beech
8	Middle Delaware-Musconetcong	56	Kentucky Lake
9	Lower Delaware	57	Twin Cities
10	Schuylkill	58	Rush-Vermillion
11	Mullica-Toms	59	Buffalo-Whitewater
12	Gunpowder-Patapsco	60	Castle Rock
13	Conococheague-Opequon	61	Copperas-Duck
14	Lower Pee Dee	62	Kishwaukee
15	Seneca	63	Chicago
16	Middle Savannah	64	Des Plaines
17	Lower St. Johns	65	Upper Fox
18	Middle Chattahoochee-Lake Harding	66	Lower Illinois-Senachwine Lake
19	Choctawhatchee Bay	67	Cahokia-Joachim
20	Perdido Bay	68	Big Muddy
21	Mobile Bay	69	Upper Kaskaskia
22	Door-Kewaunee	70	Middle Kaskaskia
23	Menominee	71	Lower Mississippi-Memphis
24	Lower Fox	72	Deer-Steele
25	Little Calumet-Galien	73	Lower Ouachita
26	Pike-Root	74	Lower Calcasieu
27	Milwaukee	75	Lower Mississippi-New Orleans
28	St. Joseph	76	Lower Kansas

Appendix D**Names of Numbered Sites from Figure II-16:****Locations of Watershed Designated as Areas of Probable Concern**

Map #	Watershed Name	Map #	Watershed Name
29	Manistee	77	Spring
30	Lake St. Clair	78	Lower Neosho
31	Detroit	79	Buffalo-San Jacinto
32	Ottawa-Stony	80	Coeur D'Alene Lake
33	Raisin	81	Lower Yakima
34	Cedar-Portage	82	Lower Willamette
35	Huron-Vermillion	83	Strait of Georgia
36	Black-Rocky	84	Duwamish
37	Ashtabula-Chagrin	85	Puyallup
38	Chautauqua-Conneaut	86	Puget Sound
39	Buffalo-Eighteenmile	87	Tulare-Buena Vista Lakes
40	Niagara	88	Coyote
41	Oak Orchard-Twelvemile	89	San Francisco Bay
42	Upper St. Lawrence	90	Santa Monica Bay
43	Upper Ohio	91	Los Angeles
44	Shenango	92	San Pedro Channel Islands
45	Tuscarawas	93	Seal Beach
46	Vermilion	94	Newport Bay
47	Middle Wabash-Busseron	95	Aliso-San Onofre
48	Holston	96	San Diego

Source: U.S. EPA 1997i